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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,956	08/01/2003	David Talkin	63711-018	3672
2101	7590	08/22/2007	EXAMINER	
BROMBERG & SUNSTEIN LLP 125 SUMMER STREET BOSTON, MA 02110-1618			HERNANDEZ, JOSIAH J	
ART UNIT		PAPER NUMBER		
2626				
MAIL DATE		DELIVERY MODE		
08/22/2007		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

*SUPPLEMENTAL*  
**Notice of Allowability**

<i>SUPPLEMENTAL</i> <b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/631,956	TALKIN, DAVID
	Examiner Josiah Hernandez	Art Unit 2626

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 05/04/2007.
2.  The allowed claim(s) is/are 1-11, 13-17-28 and 30-34.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

***Response to Amendment***

1. In response to the office Action filed January 29, 2007, applicant has submitted an Amendment, filed April 27, 2007 canceling claims 12, 29, 35 and 36. Applicant has also placed the allowable subject matter, reciting a coupled spring model, into claims 1 and 18. Finally claim 13 and 16 no longer depend on claim 12 but on claim 1 and claims 30 and 33 no longer depend on claim 29 but on claim 18.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Authorization for this examiner's amendment was given in a telephone interview with Jay Sandvos on July 19, 2007.

The application has been amended as follows:

Paragraphs [0056] and [0057] of the specification from the PGPub document have been cancelled.

***Allowable Subject Matter***

3. Claims 1-11, 13-28, and 30-34 are allowed.

4. The following is an examiner's statement of reasons for allowance:

As to claims 1 and 18, there is no prior art reference, alone or in combination, that teaches or fairly suggests a frequency contour modeling for smoothing frequency discontinuities in speech segment concatenation by a coupled spring model. Donovan et al. (US 6,266,637) teaches synthesizing speech by concatenating speech segments and adjusting characteristics at the pitch discontinuity. Beutnagel et al. (US 6,950,798) also teaches concatenating speech segments and changing frame model parameters in order to smoothen out discontinuities at the unit boundaries. However, none teach or suggest using a coupled spring model in order to calculate the linear function calculation that dictates how much to adjust the fundamental frequency contour of each synthesized speech segment at its boundaries.

Claims 2-17 and 19-34 are allowed because they further limit their parent claims, which are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

A note has been made to notify the appropriate parties that the examiner has moved from Art Unit 2609 to 2626.

Any inquiry concerning this communication should be directed to Josiah Hernandez whose telephone number is 571-270-1646. The examiner can normally be reached from 7:30 pm to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JH



DAVID HUDSPETH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600